A decorative graphic on the right side of the slide consists of several horizontal bars of varying lengths and colors (purple, yellow, orange, light blue, grey) that appear to be stacked and slightly offset, creating a sense of depth and movement.

# **Welcome to the SNIA Annual Members Symposium and Persistent Memory Summit**



## **Jim Pappas**

Vice Chair, SNIA Board of Directors

Co-Chair, Solid State Storage Initiative (SSSI)

*[jim@intel.com](mailto:jim@intel.com)*

# SNIA-at-a-Glance



**160**  
unique member  
companies



**2,500**  
active contributing  
members



**50,000**  
IT end users & storage  
pros worldwide

- Cloud Data Management Interface (CDMI) Specification v2.0
- CDMI Reference Implementation 1.0
- SNIA Emerald™ Power Efficiency Measurement Specification 3.1
- ISO version of SNIA Emerald™ Power Efficiency Measurement Specification 3.0 (or 3.1)
- TGG / SNIA Emerald Storage Point-of-View
- LTFS Format Specification v3.0
- Object Drive Key Value API Specification v1.0

- NVM Programming Model v1.3
- Persistent Memory Hardware Threat Model v1.0
- NVM PM Remote Access for High Availability
- SMI-S v1.8
- Swordfish v1.1
- Solid State Storage Performance Test Specification (PTS) 2.0.1
- Real World Storage Workload (RWSW) IO Capture & Test Specification for Datacenter Storage Version 1.0.3

The SNIA logo consists of a small square icon with a yellow top-left corner and a white bottom-right corner, followed by the letters "SNIA" in a bold, dark blue, sans-serif font.

SNIA

PERSISTENT MEMORY

PM SUMMIT

JANUARY 24, 2018 | SAN JOSE, CA

Welcome

# Thanks To Our Sponsors

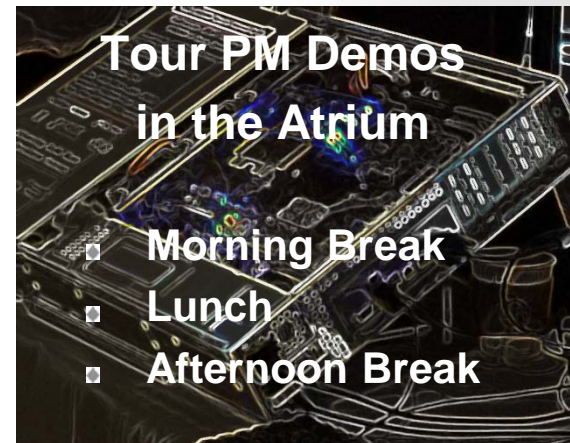
## *Underwriter*



## *Gold*



## *Demonstration*



# *Advancing Solid State and Persistent Memory*

---

- Educate developers and users on PM and Solid State Storage
  - ◆ Technology videos
  - ◆ Summits and Webcasts on demand
  - ◆ SNIA white papers
- Develop and promote models and architectures
  - ◆ NVM Programming Model
  - ◆ JEDEC Standards
- Collaborate with leading industry alliances and organizations
  - ◆ OpenFabrics Alliance
  - ◆ NVM Express

Join Us! – [www.snia.org/pm](http://www.snia.org/pm)



# SSSI Membership



The logo for the SNIA Persistent Memory Summit. It features the SNIA logo (a small square with a dot) to the left of the text 'SNIA'. To the right, 'PERSISTENT MEMORY' is written in a purple sans-serif font. Below that, 'PM' is written in large, bold, blue letters with a white outline, followed by 'SUMMIT' in a blue sans-serif font. The background of the logo is a light blue gradient with faint binary code and circuit patterns.

SNIA PERSISTENT MEMORY  
PM SUMMIT

JANUARY 24, 2018 | SAN JOSE, CA

# Persistent Memory Vision

Jim Pappas

# Consider...



 **Storage**

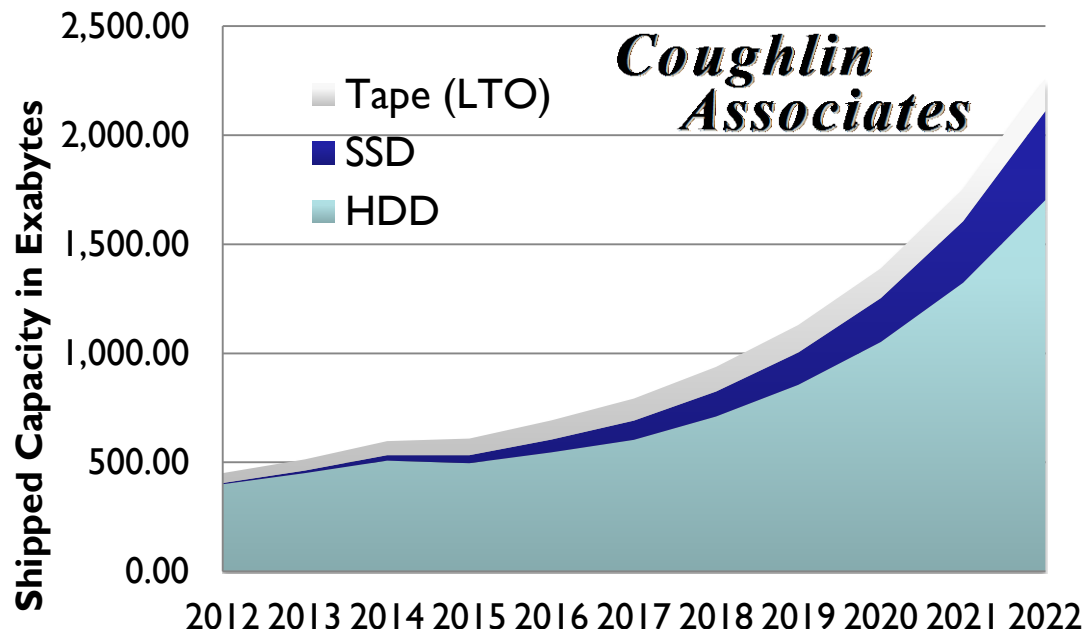
# Further Consider...



# Growth in Shipping Storage Capacity

## ➤ Total growth in shipped storage capacity due to:

- ◆ Higher resolution images & 360° Video
- ◆ IoT and AI
- ◆ Fog and Cloud Computing
- ◆ Big Science and Big Data in General



# Discrepancy

Further Consider...



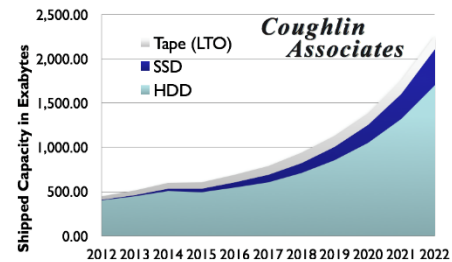
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## Growth in Shipping Storage Capacity

- ▶ Total growth in shipped storage capacity due to:
  - Higher resolution images & 360° Video
  - IoT and AI
  - Fog and Cloud Computing
  - Big Science and Big Data in General



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# Perspective



## **Jenni Dietz**

**SSSI Marketing Co-Chair, SSSI  
MC Persistent Memory Summit**

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# Summit Morning Agenda

7:30 am – 8:30 am	Symposium Continental Breakfast and Networking
8:30 am – 8:45 am	<b>Welcome and What Are We Going to Accomplish Today</b>
8:45 am – 9:15 am	<b>Keynote: Realizing the Next Generation of Exabyte Scale Persistent Memory Centric Architectures and Memory Fabrics</b>
9:15 am – 9:20 am	Symposium Attendees Leave for Sessions
9:20 am – 9:50 am	<b>Persistent Memory Programming : The Current State and Future Direction</b>
9:50 am – 10:30 am	<b>File Systems</b>
10:30 am – 10:45 am	Break and Exhibits
10:45 am – 11:50 am	<b>Persistent Memory Over Fabrics (PMoF)</b>
11:50 am – 12:10 pm	<b>Windows OS Support for Persistent Memory</b>
12:10 pm – 12:30 pm	<b>Linux Persistent Memory Support – “Ask Me Anything”</b>
12:30 pm – 1:30 pm	Lunch and Exhibits

# Summit Afternoon Agenda

1:30 pm – 1:50 pm	<b>Vmware vSphere Virtualization of PMEM</b>
1:50 pm – 2:40 pm	<b>Hype to Reality, a Panel Discussion with Leaders of Real World Persistent Memory Applications</b>
2:40 pm – 3:00 pm	<b>Quick and Painless System Performance Acceleration Using NVDIMMs</b>
3:00 pm – 3:15 pm	Coffee, Networking, and Demo Tour Break in the Atrium
3:15 pm - 3:35 pm	<b>Workload Performance Comparison</b>
3:35 pm – 4:00 pm	<b>Future Media</b>
4:00 pm – 4:35 pm	<b>New Interfaces</b>
4:35 pm – 5:10 pm	<b>Analysts Weigh In on Persistent Memory</b>
5:10 pm – 5:25 pm	<b>Recap of Day and Closing Remarks</b>

# Finally, Enjoy the Day and Socialize the Summit!

- Message your colleagues to live stream the Summit – and you can watch on-demand after the event:
  - ◆ [www.youtube.com/SNIAVideo](http://www.youtube.com/SNIAVideo)
- Ask a question during the Summit:
  - ◆ Tweet your question using #SNIAPM and we will do our best to address your question during the session
- Spread the word about the Summit!
  - ◆ Tweet mentioning @SNIA
  - ◆ Join our LinkedIn group – The Storage Networking Industry Association